

Contents to volume 348

Research Letters

- Rapid and simple approach for the NMR resonance assignment of the carbohydrate chains of an intact glycoprotein: Application of gradient-enhanced natural abundance ^1H - ^{13}C HSQC and HSQC-TOCSY to the α -subunit of human chorionic gonadotropin (FEBS 14161) *T. de Beer, C.W.E.M. van Zuylen, K. Hård, R. Boelens, R. Kaptein, J.P. Kamerling, J.F.G. Vliegthart*
- Signal transduction of the GLP-1-receptor cloned from a human insulinoma (FEBS 14167) *B. van Eyll, B. Lankat-Buttgereit, H.P. Bode, R. Göke, B. Göke*
- Proteolytically cleaved mutant antithrombin-Hamilton has high stability to denaturation characteristic of wild type inhibitor serpins (FEBS 14182) *H.T. Wright, M.A. Blajchman*
- Structural diversity of triadin in skeletal muscle and evidence of its existence in heart (FEBS 14170) *M. Peng, H. Fan, T.L. Kirley, A.H. Caswell, A. Schwartz*
- Effects of Ca^{2+} on the activation of conventional and new PKC isozymes and on TPA and endothelin-1 induced translocations of these isozymes in intact cells (FEBS 14185) *C.-C. Chen*
- Involvement of cell wall β -glucan in the action of HM-1 killer toxin (FEBS 14189) *S. Kasahara, S.B. Inoue, T. Mio, T. Yamada, T. Nakajima, E. Ichishima, Y. Furuichi, H. Yamada*
- Loss of phosphatidylserine synthesis results in aberrant solute sequestration and vacuolar morphology in *Saccharomyces cerevisiae* (FEBS 14190) *S. Hamamatsu, I. Shibuya, M. Takagi, A. Ohta*
- Swimming speed and chemokinetic response of *Rhodobacter sphaeroides* investigated by natural manipulation of the membrane potential (FEBS 14186) *D.M. Harrison, H.L. Packer, J.P. Armitage*
- Calorimetric studies of the energetics of protein–DNA interactions in the *E. coli* methionine repressor (MetJ) system (FEBS 14193) *A. Cooper, A. McAlpine, P.G. Stockley*
- Transcription factor nuclear factor I proteins form stable homo- and heterodimers (FEBS 14199) *U. Kruse, A.E. Sippel*
- Protein kinase C rapidly up-regulates the number of AT_1 angiotensin receptors on cultured rat intestinal epithelial (RIE-1) cells (FEBS 14198) *R.D. Smith*
- Immunodetection and enzymatic characterization of the $\alpha 3$ -isoform of Na,K-ATPase in dog heart (FEBS 14164) *I. Berrebi-Bertrand, J.M. Maixent*
- Ca^{2+} -dependent cosecretion of adrenomedullin and catecholamines mediated by nicotinic receptors in bovine cultured adrenal medullary cells (FEBS 14180) *F. Katoh, H. Niina, K. Kitamura, Y. Ichiki, Y. Yamamoto, K. Kangawa, T. Eto, A. Wada*
- Free radical activation of acetaldehyde and its role in protein alkylation (FEBS 14163) *E. Albano, P. Clot, A. Comoglio, M.U. Dianzani, A. Tomasi*
- Cloning and expression of a novel form of leukotriene B_4 ω -hydroxylase from human liver (FEBS 14201) *Y. Kikuta, E. Kusunose, T. Kondo, S. Yamamoto, H. Kinoshita, M. Kusunose*
- cDNA cloning of an orphan opiate receptor gene family member and its splice variant (FEBS 14171) *J.B. Wang, P.S. Johnson, Y. Imai, A.M. Persico, B.A. Ozenberger, C.M. Eppler, G.R. Uhl*

- Independent control of transcription initiations from two sites by an initiator-like element and TATA box in the human *c-erbB-2* promoter (FEBS 14192) *G. Mizuguchi, C. Kanei-Ishii, T. Sawazaki, M. Horikoshi, R.G. Roeder, T. Yamamoto, S. Ishii* 80
- Neuromedin B receptor, expressed in *Xenopus laevis* oocytes, selectively couples to $\text{G}_{\alpha q}$ and not $\text{G}_{\alpha i1}$ (FEBS 14184) *H. Shapira, J. Way, D. Lipinsky, Y. Oron, J.F. Battey* 89
- Spatial precision of a catalytic carboxylate of F_1 -ATPase β subunit probed by introducing different carboxylate-containing side chains (FEBS 14202) *T. Amano, K. Tozawa, M. Yoshida, H. Murakami* 93
- Functional expression of 2-amino-4-phosphonobutyrate (APB) receptors in *Xenopus laevis* oocytes by injection of poly(A) $^+$ RNA from quail brain (FEBS 14203) *C. Moon, S.P. Fraser, P. Barrett, P.J. Morgan, M.B.A. Djamgoz* 99
- Isolation and structural characterization of a novel peptide related to γ -melanocyte stimulating hormone from the brain of the leech *Theromyzon tessulatum* (FEBS 14195) *M. Salzet, C. Watez, P. Bulet, J. Malecha* 102
- Errata and Corrigenda 107

Hypothesis

- KEKE motifs: Proposed roles in protein–protein association and presentation of peptides by MHC Class I receptors (FEBS 14183) *C. Realini, S.W. Rogers, M. Rechsteiner* 109

Research Letters

- Substitution of conserved tyrosine residues in helix 4 (Y143) and 7 (Y293) affects the activity, but not IAPS-forskolin binding, of the glucose transporter GLUT4 (FEBS 14172) *S. Wandel, A. Schürmann, W. Becker, S.A. Summers, M.F. Shanahan, H.G. Joost* 114
- Isolation of tyrosine kinase related genes expressed in the early hematopoietic system (FEBS 14191) *L. Larsson-Blomberg, E. Dzierzak* 119
- Complete reconstitution of conjugation and subsequent degradation of the tumor suppressor protein p53 by purified components of the ubiquitin proteolytic system (FEBS 14196) *D. Shkedy, H. Gonen, B. Bercovich, A. Ciechanover* 126
- 8-Hydroxydeoxyguanosine: A marker of oxidative DNA damage in systemic lupus erythematosus (FEBS 14197) *J. Lunec, K. Herbert, S. Blount, H.R. Griffiths, P. Emery* 131
- Distribution and localization of a G protein-coupled inwardly rectifying K^+ channel in the rat (FEBS 14204) *C. Karschin, W. Schreibmayer, N. Dascal, H. Lester, N. Davidson, A. Karschin* 139
- Reassessment of the putative chaperone function of prolyl-*cis/trans*-isomerases (FEBS 14205) *G. Kern, D. Kern, F.X. Schmid, G. Fischer* 145
- Wortmannin and 1-butanol block activation of a novel family of protein kinases in neutrophils (FEBS 14207) *J. Ding, J.A. Badwey* 149
- Expression of the barley psbA gene in *Escherichia coli* yields a functional in vitro photosystem II protein D1 (FEBS 14200) *V.A. Efimov, A.F. Fradkov, A.B. Raskind, M.S. Khristin, V.V. Klimov, O.G. Chakhmakheva* 153

Preliminary X-ray crystallographic studies of photosynthetic reaction center from a thermophilic sulfur bacterium, <i>Chromatium tepidum</i> (FEBS 14148) N. Katayama, M. Kobayashi, F. Motojima, K. Inaka, T. Nozawa, K. Miki	158	Cloning a novel human brain inward rectifier potassium channel and its functional expression in <i>Xenopus</i> oocytes (FEBS 14226) W. Tang, X.-C. Yang	239
A general method for the preparation of mixed micelles of hydrophobic peptides and sodium dodecyl sulphate (FEBS 14208) J.A. Killian, T.P. Trouard, D.V. Greathouse, V. Chupin, G. Lindblom	161	Functional analysis of individual brain myosin II isoforms through hybrid formation (FEBS 14227) Y. Wang, P.D. Chantler	244
The binding of tissue prokallikrein to isolated human neutrophils (FEBS 14212) J. Anders, M. Kemme	166	Functional analysis of block 5, one of the highly conserved amino acid sequences in the 130-kDa CryIVA protein produced by <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i> (FEBS 14218) T. Nishimoto, H. Yoshisue, K. Ihara, H. Sakai, T. Komano	249
Erythrocyte band 3 protein strongly interacts with phosphoinositides (FEBS 14209) A. Hanicak, D. Maretzki, B. Reimann, E. Pap, A.J.W.G. Visser, K.W.A. Wirtz, D. Schubert	169	Gene relaxation and aging: changes in the abundance of rat ventral prostate SGP-2 (clusterin) and ornithine decarboxylase mRNAs (FEBS 14223) S. Bettuzzi, P. Strocchi, M. Marinelli, S. Astancolle, P. Davalli, A. Corti	255
A new UV-filter compound in human lenses (FEBS 14215) R.J.W. Truscott, A.M. Wood, J.A. Carver, M.M. Sheil, G.M. Stutchbury, J. Zhu, G.W. Kilby	173	Injection of a K ⁺ channel (Kv1.3) cRNA in fertilized eggs leads to functional expression in cultured myotomal muscle cells from <i>Xenopus</i> embryos (FEBS 14236) E. Honoré, E. Guillemare, F. Lesage, J. Barhanin, M. Lazdunski	259
Possible role of the transcription factor interferon regulatory factor 1 (IRF-1) in the regulation of ornithine decarboxylase (ODC) gene expression during IFN γ macrophage activation (FEBS 14206) L. Manzella, M.A. Giuffrida, M.R. Pilastro, G. Girlando, G. Picardi, L. Malaguarnera, A. Messina	177	Endothelin-1 increases the levels of mRNA and protein of muscarinic acetylcholine receptors and c-fos mRNA in cerebellar granule cells (FEBS 14225) F. Fukamauchi, D.-M. Chuang	263
Regulation of alternative oxidase kinetics by pyruvate and intermolecular disulfide bond redox status in soybean seedling mitochondria (FEBS 14214) A.L. Umbach, J.T. Wiskich, J.N. Siedow	181	Molecular cloning of a bovine MSH receptor which is highly expressed in the testis (FEBS 14233) M. Vanetti, C. Schönrock, W. Meyerhof, V. Höllt	268
Free insulin-like growth factors (IGF-I and IGF-II) in human serum (FEBS 14216) J. Frystyk, C. Skjærbaek, B. Dinesen, H. Ørskov	185	Increased expression of nucleoside diphosphate kinases/nm23 in human diploid fibroblasts transformed by SV40 large T antigen or ⁶⁰ Co irradiation (FEBS 14237) K. Ohneda, M. Fukuda, N. Shimada, N. Ishikawa, T. Ichou, K. Kaji, T. Toyota, N. Kimura	273
Phospholipase C activation and Ca ²⁺ mobilization by cloned human somatostatin receptor subtypes 1–5, in transfected COS-7 cells (FEBS 14217) M. Akbar, F. Okajima, H. Tomura, M.A. Majid, Y. Yamada, S. Seino, Y. Kondo	192	Isolation of a potassium-selective ion channel from the plasma membrane of the broad bean <i>Vicia faba</i> L. (FEBS 14243) C. Zeilinger	278
Antisense oligonucleotide complementary to endogenous retroviral MCF env gene inhibits both BFU-E and CFU-S colony formation in mice (FEBS 14228) I.V. Chernukhin, S.K. Khaldoyanidi, D.V. Dikovskaya, F.P. Svinarchuk, V.V. Vlasov, K.V. Gaidul	197	In vivo incorporation of cobalt into <i>Propionibacterium shermanii</i> superoxide dismutase (FEBS 14238) B. Meier, A.P. Sehn, M. Sette, M. Paci, A. Desideri, G. Rotilio	283
One of the retinoic acid-inducible cDNA clones in mouse embryonal carcinoma F9 cells encodes a novel isoenzyme of fructose 1,6-bisphosphatase (FEBS 14222) M. Nomura, Y. Takihara, T. Yasunaga, K. Shimada	201	Peroxynitrite-mediated oxidation of albumin to the protein-thiyl free radical (FEBS 14239) R.M. Gatti, R. Radi, O. Augusto	287
Heterologous expression of cDNAs encoding barley (<i>Hordeum vulgare</i>) (1 $\rightarrow$ 3)- β -glucanase isoenzyme GV (FEBS 14224) P. Xu, A.J. Harvey, G.B. Fincher	206	Participation of Mn(II) in the catalysis of laccase, manganese peroxidase and lignin peroxidase from <i>Phlebia radiata</i> (FEBS 14241) T. Lundell, A. Hatakka	291
Mitochondrial calcium spiking: a transduction mechanism based on calcium-induced permeability transition involved in cell calcium signalling (FEBS 14229) F. Ichas, L.S. Jouaville, S.S. Sidash, J.-P. Mazat, E.L. Holmuhamedov	211	Formation of F ₂ -isoprostanes during aortic endothelial cell-mediated oxidation of low density lipoprotein (FEBS 14242) N.K. Gopaul, J. Nourooz-Zadeh, A.I. Mallet, E.E. Ånggård	297
Effects of cobalt on haem proteins of erythropoietin-producing HepG2 cells in multicellular spheroid culture (FEBS 14221) A. Görlach, J. Fandrey, G. Holtermann, H. Acker	216	X-Ray crystallographic studies of recombinant inorganic pyrophosphatase from <i>Escherichia coli</i> (FEBS 14219) V.Yu. Oganessyan, S.A. Kurilova, N.N. Vorobyeva, T.I. Nazarova, A.N. Popov, A.A. Lebedev, S.M. Avaeva, E.H. Harutyunyan	301
FEBS NEWS	219	A comparative picosecond-resolved fluorescence study of tryptophan residues in iron-sulfur proteins (FEBS 14220) V. Dorovska-Taran, A. van Hoek, T.A. Link, A.J.W.G. Visser, W.R. Hagen	305
Errata and Corrigenda	220	Molecular characterization of an <i>Escherichia coli</i> mutant with a temperature-sensitive malonyl coenzyme A-acyl carrier protein transacylase (FEBS 14244) I.I.G.S. Verwoert, E.F. Verhagen, K.H. van der Linden, E.C. Verbree, H.J.J. Nijkamp, A.R. Stuitje	311
Mechanism of covalent modification of glyceraldehyde-3-phosphate dehydrogenase at its active site thiol by nitric oxide, peroxynitrite and related nitrosating agents (FEBS 14210) S. Mohr, J.S. Stamler, B. Brüne	223	Dependence of thymocyte apoptosis on protein kinase C and phospholipase A ₂ (FEBS 14230) V.V. Shaposhnikova, O.R. Dobrovinskaya, L.K. Eidus, Yu.N. Korystov	317
Expression of functional <i>Raphanus sativus</i> antifungal protein in yeast (FEBS 14211) A.L.V. Alves, G.W. De Samblanx, F.R.G. Terras, B.P.A. Cammue, W.F. Broekaert	228	Author Index to volume 348	320
Formation of SRP-like particle induces a conformational change in <i>E. coli</i> 4.5S RNA (FEBS 14213) G. Lentzen, B. Dobberstein, W. Wintermeyer	233	Contents to volume 348	324